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Montana. Solid and Hazardous Waste Bureau
Residential well sampling plan, Idaho Pole Company site, Bozeman,

State of Montana

Montana Department of Health & Environmental Sciences

Solid & Hazardous Waste Bureau

RESIDENTIAL WELL SAMPLING PLAN

IDAHO POLE COMPANY SUPERFUND SITE

BOZEMAN, MONTANA

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DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

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OFFICE LOCATION: Steamboat Block
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Helena, MT 59620

Solid & Hazardous Waste Bureau

November 26, 1991

Harold Chambers
Montana State Library
Capitol Complex
Helena, MT 59620

Dear Mr. Chambers:

Re: Idaho Pole Superfund site remedial investigation/feasibility study (RI/FS) Final Residential Well Sampling Plan, MDHES, September 1991.

Enclosed are 4 copies of the Residential Well Sampling Plan. The plan details residential well sampling at the Idaho Pole Superfund site to be conducted at least quarterly until a cleanup decision is reached by MDHES and EPA.

The plan was prepared in conjunction with EPA. The Residential Well Sampling Plan and subsequent reports will become part of the Administrative Record.

Should you require additional information concerning the Idaho Pole Superfund site, please contact me at 1-800-648-8485 (Montana only) or 406-449-4067.

Sincerely,

Kevin Kirley

Kevin Kirley, State Project Officer

enclosure

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RESIDENTIAL WELL SAMPLING PLAN
IDAHO POLE COMPANY SITE
BOZEMAN, MONTANA
SEPTEMBER, 1991

Introduction

The Montana Department of Health and Environmental Sciences (MDHES) is conducting a private well sampling program for the residential areas adjacent to the Idaho Pole Company (IPC). Figure 1 identifies these areas as RES-1 through RES-9 (RES-10 is owned by the IPC and is currently unoccupied). The purpose of this program is to provide valid laboratory analytical data to characterize the quality of the groundwater aquifer near the IPC site. Specifically, the objective is to determine levels of (PCP) in the groundwater used by area residents. This information is needed to aid in determining the full extent of groundwater contamination emanating from the IPC site, to help select an appropriate remedy for final cleanup and restoration of the aquifer, and to determine potential health risks to area residents.

Background

The IPC facility is a wood preservation plant that has employed chemical processes to treat wood with a 5% solution of PCP dissolved in a carrier oil. In the past, spills and leaks associated with these operations have resulted in contamination of surficial sediment, subsurface soils, and PCP dissolved in the groundwater. Additionally, a non-aqueous phase plume of the carrier oil remains floating on top of the water table. Current investigations are proceeding to fully characterize and remediate the groundwater and its sources of contamination.

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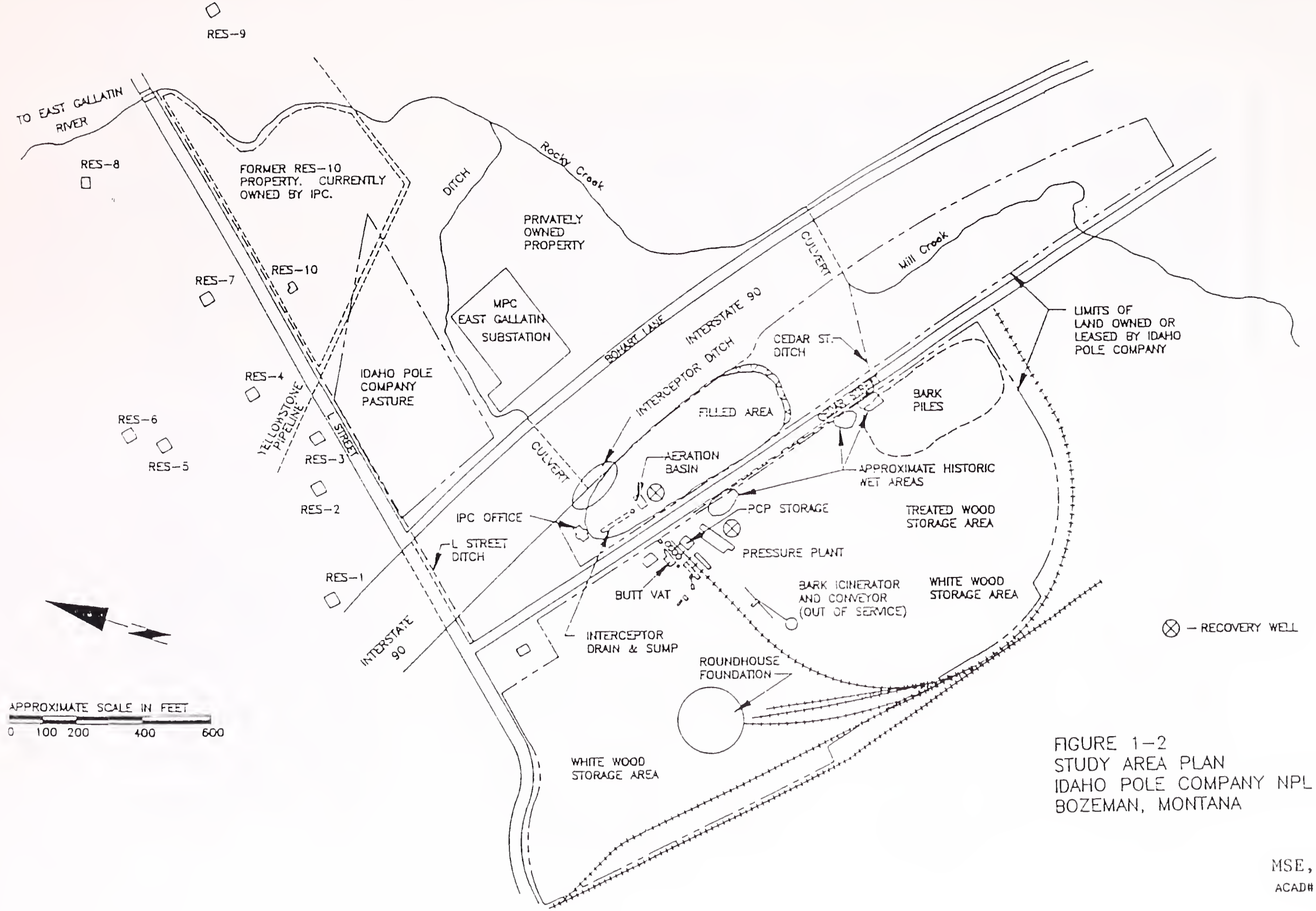

FIGURE 1-2
STUDY AREA PLAN
IDAHO POLE COMPANY NPL SITE
BOZEMAN, MONTANA

MSE, Inc.
ACAD# B90M0159
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Proposed Work Schedule

The overall scope of this project will include the collection of samples from the 9 residential wells. These wells have been previously sampled by MDHES, its contractor (MSE, Inc.), and the Environmental Protection Agency (EPA). Conditions found in the field may require variations to the sampling schedule outlined in this plan.

Changing groundwater flow conditions during different seasons of the year may result in dispersion and/or dilution of groundwater contaminants. Thus, quarterly sampling activities will be conducted in order to assess changing plume dynamics and amounts of PCP in the groundwater. October and April represent periods of moderate groundwater flow through the aquifer, while January and July are the low and high water table periods, respectively. The first round of sampling will begin in October, 1991.

Property Access

Property access procedures already established by MDHES at the site will be continued during this activity. The MDHES project manager will notify the MDHES Superfund public information officer at least two weeks in advance of the date scheduled for sampling. The public information officer will gain access by contacting well owners either in person or by telephone. Residents will be allowed to choose the time most convenient for them to have their well sampled. Each resident will be asked (but not required) to sign a property access permission form for each sampling round. These forms will be provided by the public information officer. MDHES staff will keep a written record of concerns voiced by residents during sampling or accessing activities, and will relay this record to the public information officer and site project manager.

Sampling Procedures

A representative of MDHES will conduct all sampling activities. At least three well volumes will be purged from each domestic well in order to remove any contaminants introduced from plumbing and storage tanks. Wells connected with on-line treatment or filtering systems will be sampled at both wellhead (influent) and tap (post-treatment) locations. All pertinent sampling information, including date, time, sample number, sample location, sampling method, personnel, analysis, and other comments, will be documented in a bound field notebook. Purging and sampling activities will be conducted so as to not interfere with residents' use of the water supply.

Quality Assurance/Quality Control

Samples will be analyzed for PCP using EPA method 515.1. A duplicate sample (one per sampling event) will be collected, as well as a laboratory trip and/or field blank. To maintain sample integrity, all samples will be packed in ice and sent via overnight courier to the MDHES Chemistry Laboratory Bureau for analyses. Chain of custody forms will accompany all sample shipments. The laboratory will also perform duplicate and spiked analyses to validate QA/QC. MSE, Inc. will review all laboratory analytical data and provide MDHES with a QA/QC summary.

Results, Interpretation and Reporting

Laboratory turnaround times average two to three weeks, and analytical results will be provided to individual residents within approximately four weeks after sampling. If contaminants are detected, written health advisories will be issued to the affected residents. All forms, reports, field logs, and analytical results, will be kept on file at the MDHES Solid and Hazardous Waste Bureau in Helena.